

20030214.qrp v02_n831.qrl.20030214

Date: Fri, 14 Feb 2003 19:03:05 EST
From: qrp-1@Lehigh.EDU
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: QRP-L digest 2831

QRP-L Digest 2831

Topics covered in this issue include:

- 1) [146172] Re: Small wonder labs - excellent service!
by Robin Kidd <robink@us.ibm.com>
- 2) [146173] Re: Simple Portable CW Rig?
by Rick McKee <kc8aon@juno.com>
- 3) [146174] Re: [fpqrp] Memorable QSO - LONG
by Rick McKee <kc8aon@juno.com>
- 4) [146175] RE: Digital QRP Digital Wattmeter
by "N4LGH" <n4lgh@waveguide.us>
- 5) [146176] Re: QRP SET?
by Richard Clem <clem.law@usa.net>
- 6) [146177] RE: Digital QRP Digital Wattmeter
by "George, W5YR" <w5yr@att.net>
- 7) [146178] ARGONAUT V
by "W2BJ" <barry@w2bj.com>
- 8) [146179] Truffle
by Paul Womble <pwomble1@tampabay.rr.com>
- 9) [146180] Re: Digital QRP Digital Wattmeter
by "blinn" <blinn@smgazette.com>
- 10) [146181] RE: W1AW code practice transmissions
by David Hinerman <WD8CIV@worldnet.att.net>
- 11) [146182] Woohoo! EMRFD is here!
by "Brad Hernlem" <alihernlem@hotmail.com>
- 12) [146183] FOX Spots
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 13) [146184] FOX: Heard K3ESE!
by W2AGN <w2agn@w2agn.net>
- 14) [146185] FOXes--Go Get 'Em
by "Doc K0EVZ" <dock0evz@earthlink.net>
- 15) [146186] Re: SW-20 current draw?
by "Mike" <kw1nd.web@homeinternet.net>
- 16) [146187] Truffle Log K4FB
by Paul Womble <pwomble1@tampabay.rr.com>
- 17) [146188] RE: Over analyzing the 3-winding transformer
by Nick Kennedy <nkennedy@tcainternet.com>
- 18) [146189] FOX: Triple without k5dw
by "Karl F. Larsen" <k5di@zianet.com>
- 19) [146190] FOX: WOW a busy 10 minutes

by Macstein@aol.com

20) [146191] Late FOX Spots at 0330Z
by "Doc K0EVZ" <dock0evz@earthlink.net>

21) [146192] Re: Digital QRP Digital Wattmeter
by "kk5na at Quadj" <kk5na@quadj.com>

22) [146193] Re: Woohoo! EMRFD is here!
by Ed Tanton <n4xy@earthlink.net>

23) [146194] Atlanticon Kit: The "Sniffer"
by "George Heron N2APB" <n2apb@erols.com>

24) [146195] RE: Over analyzing the 3-winding transformer
by David Hinerman <WD8CIV@worldnet.att.net>

25) [146196] FOX: trying to find the pitiful scraps of my paper log...
by Lloyd Lachow <llachow@yahoo.com>

26) [146197] NJQRP Sniffer Kit ordering info
by David Porter <aa3ur@comcast.net>

27) [146198] RE: [fpqrp] FOX: trying to find the pitiful scraps of my paper log...
by "George, W5YR" <w5yr@att.net>

28) [146199] Alignment instructions for OHR WM-2 wattmeter?
by ae5x@netscape.net (John Harper AE5X)

29) [146200] Atlanticon "Sniffer" Competition: sounds like ...
by "sslyon" <sslyon@megalink.net>

30) [146201] FOX: Only 1 This Time
by W2AGN <w2agn@w2agn.net>

31) [146202] Radio shack specials. Where found?
by brewerj@squared.com

32) [146203] Re: Radio shack specials. Where found?
by KD5NWA <KD5NWA@cbayona.com>

33) [146204] Re: Radio shack specials. Where found?
by "John Huffman" <hjohnc@core.com>

34) [146205] Re: Twisted Bifilar windings
by "Chris Trask" <chistrask@earthlink.net>

35) [146206] Re: Radio shack specials. Where found?
by "W7KXB" <w7kxb@cox.net>

36) [146207] No new news to report on NorCal Mini Boots Amp
by "Doug Hendricks" <ki6ds@dph.dpol.net>

37) [146208] WM-2 alignment - thanks guys
by ae5x@netscape.net (John Harper AE5X)

38) [146209] RE: [fpqrp] FOX: trying to find the pitiful scraps of my paper log...
by palmer_t <ThomasPalmer@colliergov.net>

39) [146210] mc1350
by robert conley <kc5wa-qrp@juno.com>

40) [146211] Dual gate FETs: summary
by "Ian Wilson" <ianmwilson@earthlink.net>

41) [146212] Nice find in my parts...
by Ed Tanton <n4xy@earthlink.net>

42) [146213] Re: [NoGaQRP] Nice find in my parts...

- by "Michael C. Boatright" <ko4wx@mindspring.com>
- 43) [146214] Dacron good stuff for antenna guys like Bill says
by "Stuart Rohre" <rohre@arlut.utexas.edu>
- 44) [146215] Fox: Sending Speed
by "Karl F. Larsen" <k5di@zianet.com>
- 45) [146216] Re: Dacron good stuff for antenna guys like Bill says
by Chris Cartwright <ccart@phideaux.com>
- 46) [146217] Re: Dual gate FETs: summary
by "Prof. Arnaldo Coro Antich" <inforhc@ip.etcusa.cu>
- 47) [146218] More raving about resonating transformers
by Nick Kennedy <nkennedy@tcainternet.com>

Date: Thu, 13 Feb 2003 19:07:45 -0500
From: Robin Kidd <robink@us.ibm.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [146172] Re: Small wonder labs - excellent service!
Message-ID: <0FDC5D31AD.758A623D-ON85256CCD.000008D43-85256CCD.00000B5BB@us.ibm.com>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

I can heartily second the great service that Dave has given. He probably does not remember me asking really "stupid" questions while I was building my SWL 40. Thanks Dave. BTW, I am now building a RockMite...

Regards,

Robin J. Kidd
Network Engineer, AMS Learning Technologies
IBM Global Services

Remember, the Ark was created by inspired amateurs but the Titanic was created by professionals...

Internet: robink@us.ibm.com
Phone: 770.835.3596(T/L 596)

"Chuck Chandler"
<chchandler@adelp

To: "Low Power Amateur Radio

Discussion" <qrp-1@Lehigh.EDU>

hia.net>

cc:

Sent by:

Subject: Small wonder labs -

excellent service!

owner-qrp-1@Lehigh.
EDU

02/13/2003 05:26

PM

Please respond to
chchandler

I recently built a Small Wonder Labs SW-40+ kit. It went together well, tuned up well, and I made my first QSO with it.

Then promptly tried to tune it with no antenna connected. Much smoke.

Dave from SWL answered my emails promptly and sent me (free!) replacement parts and hints as to what to look for. Both diodes he sent me had failed (the one that exploded was easy to find. The other one I wouldn't have seen at first glance.)

My SWL is back up and running. Dave at SWL helped me out when the problem was plainly my fault. That is the kind of service I think deserves mention.

Disclaimer: I have no financial interest in SWL, just a happy customer.

Thanks, Dave!

73 de Chuck, WS1L

chchandler@adelphia.net

Date: Thu, 13 Feb 2003 17:39:57 -0500

From: Rick McKee <kc8aon@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [146173] Re: Simple Portable CW Rig?
Message-ID: <20030213.190412.8926.0.kc8aon@juno.com>

Don't forget the little Yaesu FT-747GX ! Great little radio, simple to operate, all modes unless the FM board hasn't been added, a good CW filter, light weight, small size (9.5" x 3.5" x 9.5") and can be made to turn down to the millawatt level by simply clipping diode # D99 which is under the filter board. This makes it adjustable in all modes from the front panel drive control ! The factory default for the drive control is CW only.

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio
SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Surplus GRC 109 RX
Power is for punks ! QRP is for the confident !
QRP-L #2112, FPqrp #33, AR QRP #269

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Date: Thu, 13 Feb 2003 18:50:54 -0500
From: Rick McKee <kc8aon@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [146174] Re: [fpqrp] Memorable QSO - LONG
Message-ID: <20030213.190412.8926.1.kc8aon@juno.com>

Mine would be the first one I ever made ! It was right after I upgraded to tech plus in 1995 about a month after I got my no-code tech license. Have been hooked on CW ever since ! I had dropped the output of my Yaesu FT-101E to 50 watts because I had heard that you didn't need much power for CW ! Boy, was I in for a surprise ! I nervously called CQ (with straight key) on 7.110 Mhz and got a reply on the first call. Being a newbie, I wanted to shut the radio off at that moment, because I didn't know if I could copy well enough to finish the QSO. But, I fought the situation and managed to log my first ever CW contact, and the guy I operated was operating QRP of all things ! He told me that he was doing 2 watts out, and I had problems believing that, because I was reading him an honest "599" RST ! I'm in Southern Ohio, and the other operator (Rev. Bruce Bowes, KB2TRF) was in Lagrangeville, NY. I thought, "boy, I gotta try this", so I turned the rig down as low as it would go (don't remember how low I got it) and finished the contact operating qrp ! Shortly after

that I got myself an old Heathkit HW-8 and really had a blast !

The second most memorable CW contact was when I was in QSO with Doug Maiden, KB4KGL in Bristol, TN which started as a 75 meter phone contact on 3.963 Mhz. We decided to work each other via CW too, and just switched modes on the same freq. While working Doug via CW, he asked me what kind of keyer and paddle I was using. Well, that really made me feel proud, because at the time, I didn't even own a keyer and paddle ! All I had was an Ameco straight key (cost about 15 bucks). Doug stated that he was very impressed with my fist, and that he had a J-38 key that he could never send that well with. A few days later, I received a box in the mail. In that box, was a qsl card from Doug along with that J-38 key he spoke of and a short note telling me, "that anyone with a fist that smooth, deserved a better key than a \$15 dollar cheapie" ! I still have that J-38, and still use it regularly ! "Thanks Doug !

72/73 de: Rick McKee, KC8AON <> Willow Wood, Ohio
SW 40+, HW-8, Yaesu FT-7, Homebrew 6V6 tube TX & Surplus GRC 109 RX
Power is for punks ! QRP is for the confident !
QRP-L #2112, FPqrp #33, AR QRP #269
"A clear conscience is most likely the result of a poor memory"

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Date: Thu, 13 Feb 2003 16:35:04 -0800
From: "N4LGH" <n4lgh@waveguide.us>
To: "QRP-L" <qrp-l@lehigh.edu>
Subject: [146175] RE: Digital QRP Digital Wattmeter
Message-ID: <GNEOLGDJDOPEALHJMKLCCEJEDHAA.n4lgh@waveguide.us>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'd like to see a digital qrp wattmeter as well. Leon or someone posted a note about some new IC that is a great power level measurer ... seems like a neat chip for that or an analyzer ...

Tracy N4LGH

Do any of the QRP kitters (is there such a word?) offer a QRP Digital Wattmeter kit? I would love to have one but I would rather build it up from a kit. If there are kits available, I would like to place it on the wish

list of future kits. It would be nice if it displayed forward and reverse power at the same time on a two line display. An audible alarm for high SWR might be nice too.

John K7SVV

Date: Thu, 13 Feb 2003 18:53:52 -0600
From: Richard Clem <clem.law@usa.net>
To: <hoglund@wfu.edu>
Cc: <qrp-l@Lehigh.EDU>
Subject: [146176] Re: QRP SET?
Message-ID: <908HBNa215856S01.1045184032@uwdvg001.cms.usa.net>
Mime-Version: 1.0
Content-Type: text/plain; charset=ISO-8859-1
Content-Transfer-Encoding: quoted-printable

Great minds must think alike, because I was just thinking about the same =
thing
today. (I haven't gotten my March QST yet, so I'm looking forward to rea=
ding
that article.)

I think QRP has a role in emergency communications. The part it plays in=
my
personal emergency plans is that I know I have a reliable means of
communicating with the "outside world" even in the absence of any electri=
cal
power, etc. I might not be able to communicate reliably with any other g=
iven
station, but I would be able to communicate reliably with *someone*.

How I would use my QRP gear in an emergency would probably be to check in=
to
some traffic net, and pass traffic to wherever I would want it to go.

The idea I had for QRP-L and SET was just to encourage as many as possibl=
e on
this list to pass some formal traffic during the SET weekend. (One of th=
e
original ideas of SET is to see how the normal traffic nets cope with mor=
e
traffic, so I think additioal traffic would be welcome.)

Perhaps, in addition to whatever other messages people wanted to send, everyone could send one message to a pre-designated person who could report the number of messages received. I think that could be a quite impressive display of what QRP could do.

I also had another idea about planning for staying in contact with out-of-town family during a local emergency. It would be nice if people who might want to contact us during an emergency to have a phone number of a pre-arranged contact person or persons who would be able to work us via QRP. For example, my XYL's family is in Mexico. (Her dad is actually a ham, but it's just not reliable to plan on being able to work him via QRP.)

On the other hand, I know that I can reliably work someone in, for example, WI or IL or IA on 40 meter CW, even with QRP, and even with a limited antenna if necessary. It seems like it would be a good plan to have an occasional scheduled with one or more stations in one of these areas, with the understanding that if there was some kind of emergency such that the phones were out to either of us, we would be on the air at a pre-arranged time and frequency. This wouldn't need to be anything very formal, but it would be reassuring to have a phone number outside of the local area that someone could call if they needed to contact us.

Anyway, I'll definitely look for that article when my QST shows up.

73,
Rick W0IS

Date: Thu, 13 Feb 2003 13:25:03 -0500
From: Kenneth Hoglund <hoglund@wfu.edu>
To: Low Power Amateur Radio Discussion <qrp-1@Lehigh.EDU>
Subject: [146162] QRP SET?
Message-ID: <3E4BE2FF.48BEF33C@wfu.edu>
MIME-Version: 1.0

Content-Type: text/plain; charset=3Dus-ascii
Content-Transfer-Encoding: 7bit

Gang--

The March QST arrived today so while home for lunch I read Rich's QRP column (always the first thing I read!). For those who haven't seen it yet, it's a pretty nice overview of using qrp for emergency communications. Got me to thinking---the ARRL says any group can perform their own Simulated Emergency Test anytime in the Fall. So, how about a national QRP-L SET?

We could get some remote stations in place, all operate off-mains, run some cw, some ssb, some PSK-31?? Might make for an interesting demonstation of qrp power!

73
Ken KG4FGC

Date: Thu, 13 Feb 2003 18:58:53 -0600
From: "George, W5YR" <w5yr@att.net>
To: <digi2@earthlink.net>,
 "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>
Subject: [146177] RE: Digital QRP Digital Wattmeter
Message-ID: <IGEMKCEKDDMKFONPPFHBCEPEDAAA.w5yr@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Contact Steve "Melt Solder" Weber . . . he put out an excellent digital power meter kit a year or so ago.

73/72, George
Amateur Radio W5YR - the Yellow Rose of Texas
Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
"In the 57th year and it just keeps getting better!"

-----Original Message-----

From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of John
Sent: Thursday, February 13, 2003 3:02 PM
To: Low Power Amateur Radio Discussion

Subject: Digital QRP Digital Wattmeter

Do any of the QRP kitters (is there such a word?) offer a QRP Digital Wattmeter kit? I would love to have one but I would rather build it up from a kit. If there are kits available, I would like to place it on the wish list of future kits. It would be nice if it displayed forward and reverse power at the same time on a two line display. An audible alarm for high SWR might be nice too.

John K7SVV

Date: Thu, 13 Feb 2003 17:02:55 -0800 (PST)
From: "W2BJ" <barry@w2bj.com>
To: QRPp-I@yahoogroups.com, fists@qth.net, qrp-l@Lehigh.EDU
Subject: [146178] ARGONAUT V
Message-ID: <20030213170255.14701.h004.c001.wm@mail.minsky.org.criticalpath.net>
Content-Type: text/plain; charset=iso-8859-1
Content-Disposition: inline
Content-Transfer-Encoding: 7bit
MIME-Version: 1.0

Thanks for all of the good comments about the Argonaut V. I just ordered mine. I am getting the unit with the TCXO, fan and power supply. Again, thanks for the help.

72/73, Barry J. Minsky, W2BJ ARRL, QRP ARCI #8871, NorCal #1560, QRP-L, FISTS #2701, Century Club #569, Platinum #51, Silver #119, FISTS CW Club of Coastal Georgia, Knightlites, Adventure Radio Society #359, QCWA #29298, OOTC #3723, SOC #193, K2 #577, K1 #98, Rock Mite

Date: Thu, 13 Feb 2003 20:11:24 -0500
From: Paul Womble <pwomble1@tampabay.rr.com>
To: FP List <fpqrp-l@mpna.com>, QRP-L <qrp-l@Lehigh.EDU>
Subject: [146179] Truffle
Message-ID: <3E4C423C.D7C52243@tampabay.rr.com>
MIME-Version: 1.0

Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

W8DIZ was scheduled to be tonights truffle. He will not be there due to a trip to sunny Florida.

I have not seen anyone else say they will be filling in, so...look for K4FB somewhere around 7044 +/- at 0130z.

oo,
Paul K4FB
FP # 124

Date: Thu, 13 Feb 2003 17:08:44 -0800
From: "blinn" <blinn@smgazette.com>
To: <digi2@earthlink.net>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [146180] Re: Digital QRP Digital Wattmeter
Message-ID: <006301c2d3c5\$9fc808a0\$8170ef42@blinn>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I built the NoGa Wattmeter and it works great. A real kit value!

<http://www.qsl.net/nogaqrp/>

Bill - WA7TQK

[SMGazette.com E-mail is scanned for viruses by Declude Virus]
[Visit us on the web at SMGazette.com]

Date: Thu, 13 Feb 2003 20:34:43 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-1@lehigh.edu
Subject: [146181] RE: W1AW code practice transmissions
Message-ID: <5.1.1.6.1.20030213203157.00b25e90@postoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Ed,

Are those files kept current? I could have sworn I'd looked there and saw older (by weeks) files.

Maybe my browser cache showed me an older file. Or maybe a virus has infected my wetware. (Grin)

Dave

At 06:41 PM 2/13/2003 -0500, you wrote:

>Joe Carcia at W1AW will forgive me for the message I just sent. :-) It
>won't be the first time I have had egg on my face. :-)

>

>See <http://www.arrl.org/w1aw/morse.html>. The "-- text" links give the
>plain text of what is being sent.

>

>Is this what you were looking for?

>

>73,

>Ed Hare, W1RFI

>ARRL Lab

>225 Main St

>Newington, CT 06111

>Tel: 860-594-0318

>Internet: w1rfi@arrl.org

>Web: <http://www.arrl.org/tis>

>

> > -----Original Message-----

> > From: Alex [<mailto:kr1st@amsat.org>]

> > Sent: Thursday, February 13, 2003 9:22 AM

> > To: Low Power Amateur Radio Discussion

> > Subject: Re: W1AW code practice transmissions

> >

> >

> > Thanks, Brian. However, I was specifically asking about the transcript
> > of the code practice transmission, not the schedule, nor the code
> > bulletin. Perhaps I'm missing something, but it's not on that page or
> > any other page on the ARRL web site.

> >

> > 73,

> > --Alex KR1ST

> >

> > brian wrote:

> > >

> > > Go to ARRL.ORG

> > >

> > > Click on BULLETINS

> > >
> > > Click on TRANSMISSION SCHEDULE
> > >
> > > Or just go right here...
> > >
> > > <http://www.arrl.org/w1aw.html#w1awsked>
> > >
> > > That's code practice and bulletins. You don't have to be a
> > member. ARRL
> > > Bulletins are always sent at 18 wpm.
> > >
> > > Slow code = practice sent at 5, 7-1/2, 10, 13 and 15 words
> > per minute (wpm).
> > > Fast Code = practice sent at 35, 30, 25, 20, 15, 13 and 10 wpm.
> > >
> > > 73
> > >
> > > ----- Original Message -----
> > > From: "Alex" <kr1st@amsat.org>
> > > To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
> > > Sent: Thursday, February 13, 2003 7:56 AM
> > > Subject: W1AW code practice transmissions
> > >
> > > > Hi there,
> > > >
> > > > I just realized that with QST being a membership only
> > journal, the W1AW
> > > > code practice transmissions also have become somewhat
> > "member only". I
> > > > realize one could borrow a QST or one could run a
> > computer program and
> > > > verify against that, but still, it would've been nice if
> > they at least
> > > > publish the text on the ARRL web site (I don't mean the
> > regular code
> > > > bulletin). I just checked their site and could not find
> > it. There are
> > > > files with code practice tests available, but that's only
> > for the mp3
> > > > accompanying mp3 files. I guess it's time to go up the
> > chain of command.
> > > > :)
> > > >
> > > > 73,
> > > > --Alex KR1ST
> > > >
> >

Dave Hinerman
WD8CIV@att.net

Date: Fri, 14 Feb 2003 01:38:08 +0000
From: "Brad Hernlem" <alihernlem@hotmail.com>
To: qrp-l@lehigh.edu
Subject: [146182] Woohoo! EMRFD is here!
Message-ID: <F120PiQ0Lt1h0MfGo7Y000128f2@hotmail.com>
Mime-Version: 1.0
Content-Type: text/plain; format=flowed

Thanks, Bill.

I just got my copy of "Experimental Methods in RF Design".

I envisioned a smaller book. This thing is big.

Brad

Help STOP SPAM with the new MSN 8 and get 2 months FREE*
<http://join.msn.com/?page=features/junkmail>

Date: Thu, 13 Feb 2003 20:15:46 -0600
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "qrp-l reflector" <qrp-l@lehigh.edu>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [146183] FOX Spots
Message-ID: <412003251421546112@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Gang:

Both FOXes are out and running LOUD and fast. Larry N2WW (CO) is on 7.036 and listening UP. Lloyd K3ESE (MD) is on 7.042.2, also listening up. Both are a good 589+ here in Bismarck. Believe this could be a "two-fer" evening for many hunters. Good luck, everyone!

73,
--Doc/K0EVZ

Date: Thu, 13 Feb 2003 21:21:51 -0500 (Eastern Standard Time)
From: W2AGN <w2agn@w2agn.net>
To: qrp-l@Lehigh.EDU
Subject: [146184] FOX: Heard K3ESE!
Message-ID: <3E4C52BF.00000A.73345@w2agn>
MIME-version: 1.0
Content-type: Text/Plain
Content-transfer-encoding: 7BIT

Surprise, Lloyd is about 339 here, but fading fast. Jumped down and got N2WW quickly, then tried a couple calls, but some clown calling CQ now, and Lloyd is very weak here only 96 miles away.

+-----+ John L. Sielke
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
+-----+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Thu, 13 Feb 2003 20:27:24 -0600
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "qrp-l reflector" <qrp-l@lehigh.edu>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [146185] FOXes--Go Get 'Em
Message-ID: <412003251422724356@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Gang:

Still hearing both FOXes very LOUD here in Bismarck. At 0220 Larry N2WW is running 599, listening up. Lloyd K3ESE is about 579+ and listening up. Both FOXes have good packs of hunters after them. Saddle up and get both of these fine FOXes tonight [g].

73,

--Doc/K0EVZ

Date: Thu, 13 Feb 2003 19:29:39 -0700 (MST)
From: "Mike" <kw1nd.web@homeinternet.net>
To: <qrp-l@Lehigh.EDU>
Subject: [146186] Re: SW-20 current draw?
Message-ID: <1093.208.14.165.27.1045189779.squirrel@webmail.velocitus.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Thanks for all the replies, folks. In summary, transmit current is around 180 mA @ 1 watt, 225 mA @ 1.5 watts, and 330-350 mA at 2.5 watts (full power). Receive current is approximately 16 mA.

73

Mike KW1ND

Date: Thu, 13 Feb 2003 21:41:58 -0500
From: Paul Womble <pwomble1@tampabay.rr.com>
To: FP List <fpqrp-l@mpna.com>, QRP-L <qrp-l@Lehigh.EDU>
Subject: [146187] Truffle Log K4FB
Message-ID: <3E4C5776.39DDF775@tampabay.rr.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

01:30 N5ZE 559 TX LEW 5W
01:31 W5YR 579 TX GEORE 5W
01:32 K5DI 559 NM KARL 5W
01:33 KG4LDY 559 VA JIM 384
01:33 K3ESE 559 MD LLOYD 376
01:34 K5JHP 559 TX BILL 5W
01:35 N1TP 579 FL TOM 368

01:35 K5SR 559 TX DALE 5W
01:36 N9NE 559 WI TODD 5W
01:37 WA9TZE 599 WI JIM 417
01:37 W5USJ 559 TX CHUCK 5W
01:38 KK5NA 559 TX JOE 246
01:39 W5TB 559 TX DOC 128
01:40 AJ4AY 559 AL JAY 115
01:41 K50T 559 WI LARRY 5W
01:42 K9UT 559 IN JERRY 310
01:43 K5DW 559 TX DON 5W
01:50 K5TCC 559 TX DOC 5W
01:52 W7KXB 579 AZ BILL 543
01:52 KB9YIG 559 IN TONY 500MW
01:53 W9HL 559 IL RANDY 382
01:54 WA8BXN 559 MI MIKE 5W
01:57 KN5TX 559 TX CHUCK 5W
01:58 W9XU 559 WI LON 5W

Date: Thu, 13 Feb 2003 20:53:46 -0600
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "'WD8CIV@worldnet.att.net'" <WD8CIV@worldnet.att.net>,
Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [146188] RE: Over analyzing the 3-winding transformer
Message-ID: <01C2D3A2.01567080.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

>
> Any clues as to an optimal, or even a "rule of thumb" starting value, for
> the reactance of the tertiary winding? Or even a "more / fewer turns are
> better" rule?
>
> Dave
>

That's a really good question. W1FB made his tertiary winding 11 turns Vs
1 on the primary, so the ratio of reactances was over 100 (106 ohms to
0.88 ohms). I tried to come up with some kind of rule, but the fact that
both the inductance and the loss resistance of the tertiary are major
factors makes it sort of complex. When I cut the inductance of the
tertiary in half while maintaining the loss resistance at 0.1 ohms, it
didn't hurt things too much in terms of dB loss and deviation from the
ideal impedance transformation ratio. But 0.1 ohms loss is probably an

unreasonably low estimate of loss resistance. I think iron powder toroids often have Qs in the neighborhood of a couple hundred or so.

Much as I like to analyze and fully understand before picking up the soldering iron, this may be one case where measurements will be necessary. But my initial rule will be ten to one or so on turns, which implies 100 to one on inductance.

72--Nick, WA5BDU

Date: Thu, 13 Feb 2003 20:09:10 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-l@lehigh.edu
Subject: [146189] FOX: Triple without k5dw
Message-ID: <Pine.LNX.4.44.0302131955050.2726-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

I got k4fb the Truffel early as dinner was called in the house. So ate with the family and helped with dishes and then it was 0200 UTC Friday! I poked around where the Truffel was but nothing heard. Then Lloyd was heard on 7.042.43 MHz and I called him several times. Changed frequency a bit and tried up farther than the pack but nothing worked!

So I went down for Larry and found him at 40 wpm on 7.036.19 MHz and found the pack and started calling. No luck. My CW is really slow compared to Larry's at 18 wpm my FT-817 tells me. So I called a few dozen times with zero luck. And Larry is weak this close. So I set my CW speed to 23 wpm and went back to the other frequency.

Lloyd was not real strong either but I called him on the frequency of his last contact and he came right back to me. I worked him at 0240. He seemed to like my faster CW...

So back to 40 wpm Larry and he was taking guys on his frequency. So I just called him one time on frequency and he came right back and that pelt was at 0242.

So tonight it seems like your CW speed has an effect. I'm getting used to my new, old Bencher paddle and it's really nice. I think it will be a keeper. And it's even raining here and all local noise is gone.

--

- Karl Larsen k5di Las Cruces,NM Az ScQRPions -

Date: Thu, 13 Feb 2003 22:19:57 EST
From: Macstein@aol.com
To: fpqrp-1@mpna.com, qrp-1@lehigh.edu
Subject: [146190] FOX: WOW a busy 10 minutes
Message-ID: <1e6.1fb6e0d.2b7dba5d@aol.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Got home late maybe 0305. Ran out back and threw up the PAC-12 and three radials... ran upstairs turn on rig..0310 got Lloyd...0315 got Larry one call each! too much fun, too little time.

-MAC-
AF4PS

Date: Thu, 13 Feb 2003 21:41:17 -0600
From: "Doc K0EVZ" <dock0evz@earthlink.net>
To: "qrp-1 reflector" <qrp-1@lehigh.edu>
Cc: "doc k0evz earthlink" <dock0evz@earthlink.net>
Subject: [146191] Late FOX Spots at 0330Z
Message-ID: <412003251434117731@earthlink.net>
MIME-Version: 1.0
Content-type: text/plain; charset=US-ASCII

Gang:

Both FOXes are still LOUD here in Bismarck. Larry N2WW is 589+ and has QSYed to 7.036.8, listening only slightly UP. If you call him, he *will* hear you for sure. Lloyd K3ESE is still on 7.042, and calling "CQ FOX". Give him a holler, as well. Good luck everyone.

73,
--Doc/K0EVZ

Date: Thu, 13 Feb 2003 22:48:06 -0600
From: "kk5na at Quadj" <kk5na@quadj.com>
To: <w5yr@att.net>,
 "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [146192] Re: Digital QRP Digital Wattmeter
Message-ID: <0e7f01c2d3e4\$443f0460\$6a01a8c0@joes>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I contacted him after seeing your's at your presentation at NORTEX QRP last month George. He says he has none of the kits on hand anymore.

Joe KK5NA

----- Original Message -----
From: "George, W5YR" <w5yr@att.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Sent: Thursday, February 13, 2003 6:58 PM
Subject: RE: Digital QRP Digital Wattmeter

> Contact Steve "Melt Solder" Weber . . . he put out an excellent digital
> power meter kit a year or so ago.

>
> 73/72, George
> Amateur Radio W5YR - the Yellow Rose of Texas
> Fairview, TX 30 mi NE of Dallas in Collin county EM13QE
> "In the 57th year and it just keeps getting better!"

>
>
>
> -----Original Message-----
> From: owner-qrp-1@Lehigh.EDU [mailto:owner-qrp-1@Lehigh.EDU] On Behalf Of
> John
> Sent: Thursday, February 13, 2003 3:02 PM
> To: Low Power Amateur Radio Discussion
> Subject: Digital QRP Digital Wattmeter

>
>
> Do any of the QRP kitters (is there such a word?) offer a QRP Digital
> Wattmeter kit? I would love to have one but I would rather build it up

from

> a kit. If there are kits available, I would like to place it on the wish
> list of future kits. It would be nice if it displayed forward and reverse
> power at the same time on a two line display. An audible alarm for high
SWR
> might be nice too.
>
>
> John K7SVV

Date: Thu, 13 Feb 2003 23:58:39 -0500
From: Ed Tanton <n4xy@earthlink.net>
To: alihernlem@hotmail.com,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [146193] Re: Woohoo! EMRFD is here!
Message-ID: <5.2.0.9.2.20030213235754.03967c38@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Pretty nice isn't it?!!! Keep you-and me-chewing on things for a while.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

Date: Fri, 14 Feb 2003 00:59:34 -0800
From: "George Heron N2APB" <n2apb@erols.com>
To: "EPA-QRP" <EPA-QRP@yahoogroups.com>,

"NoVAQRP" <NoVaQRP@topica.com>, "NJQRP" <njqrp@njqrp.org>,
Subject: [146194] Atlanticon Kit: The "Sniffer"
Message-ID: <006801c2d407\$9f75eb00\$b70aa8c0@GHLTP4>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Okay all, plug in your soldering irons, roll up your sleeves, and get ready for some multi-dimensioned fun ...the NJQRP is super pleased to announce this year's Atlanticon Kit ... the "Sniffer"!

The NJQRP Sniffer is a tuned-input, multiband-capable field strength meter for the HF amateur bands that is easily constructed using commonly available components. The NJQRP Club is providing a kit of parts and instructions to help guide the homebrewer through Manhattan-style assembly of the Sniffer, and a theory of operation section that explains circuit fundamentals. The manual also describe common uses and operating techniques for this piece of test equipment.

The Sniffer is an ingenious creation of master QRP designer Joe Everhart, N2CX and is easily constructed using "Manhattan-style" techniques. All components and PCB material are provided, along with manual sections on test and usage, and a thorough circuit description to help you really understand the project. A full-scale template is provided as an example for parts layout, or you can build it using your own imagination. Perhaps even build it into a nice enclosure. By assembling this simple kit you'll have an enjoyable homebrew experience using a popular construction technique and you'll end up with a very useful measurement device for years to come.

WHAT'S A FIELD STRENGTH METER?

An RF field strength meter is one of the simpler - yet more valuable - pieces of test equipment that a ham can have around the shack. By nature, our interest centers on the characteristics of the radio frequency energy we are pumping out of our antenna . how much, how efficient, its directivity and bandwidth. A properly used Field Strength Meter (FSM) can provide invaluable relative insight to each of these characteristics, and more.

AVAILABILITY

The Sniffer Kit is available for sale to everyone, and it is available now. The price of the kit is really quite unbelievable, due in great part to two very special friends of the NJQRP Club and QRPers everywhere ...

Scott Gregson, KC7MAS, the owner and operator of EMTECH (<http://emtech.steadynet.com/>), was very helpful in supporting this year's Atlanticon extravaganza by graciously providing the Polyvaricon tuning capacitors at a more-than-reasonable price. Without his help, this project would not have been able to come to fruition as the "Atlanticon Kit" this

year. A Sincere thank you Scott!

Doug Hendricks, KI6DS, co-founder of the NorCal QRP Club (<http://www.norcalqrp.com/>) and "teacher-extraordinaire", was also instrumental in making this Sniffer FSM Kit happen. Doug provided the NJQRP with the beautiful meters used in the design, at a next-to-nothing price. Once again, thank you Doug!

SO WHY IS THIS CALLED THE "ATLANTICON KIT"?

Each year the NJQRP provides all those who attend Atlanticon with a special kit that is at the root of the weekend fun. Build the Sniffer, bring it along to Atlanticon and enter it in the Homebrew Building Contest along with the other 100+ QRPers doing the same. Who knows, perhaps you'll win a nice prize for craftsmanship, originality, creativity or functionality! But no matter how you build the Sniffer, you'll end up with a quality instrument that can be used for many years.

But there's more fun yet with the Atlanticon Kit ...

ATLANTICON SPECIAL EVENT

If you are attending the Atlanticon QRP Forum this year, you'll have some extra special fun ... In addition to the fun of building your own unique version of the Sniffer and having it judged in the Atlanticon Homebrew Contest, you'll be able to use it in the hilarious Special Event that we conduct each year.

In the past we've had a PSK31 audio beacon pileup, a Badger smartbadge code reception contest, and an oscillator power measurement event.

This year we'll have a FOX HUNT wherein everyone will use their Sniffer field strength meters to locate QRP transmitters hidden around the ballroom. But be careful - it's not going to be as easy as it sounds! Since the Sniffer is tunable over all HF ham bands, the transmitters will be on multiple bands. Some transmitters may have timers that key their output at certain intervals. Others may have their frequency swept or arbitrarily shifted. Still others may be "mobile" in some fashion within the ballroom. Who knows what other tricks are up the sleeves of the NJQRP planners. No matter how it's done, it's guaranteed that we'll have a boatload of fun, and have some cool prizes for the winners!

Check out the photos and additional detail (including price and ordering information) on the Sniffer website at <http://www.njqrp.org/sniffer>

And to learn more about the Atlanticon QRP Weekend, visit those pages at <http://www.njqrp.org/atlanticon/Atlanticon2003.html> We have a full set of amazing QRP luminaries on the speaking staff, giving fabulous presentations all day long on Saturday. This is one QRP event you just don't want to miss!

73, George N2APB n2apb@amsat.org
and Dave AA3UR njqrp-kits@comcast.net
for the NJQRP Club at <http://www.njqrp.org>

Date: Fri, 14 Feb 2003 08:45:10 -0500
From: David Hinerman <WD8CIV@worldnet.att.net>
To: qrp-l@lehigh.edu
Subject: [146195] RE: Over analyzing the 3-winding transformer
Message-ID: <5.1.1.6.1.20030214084240.00a6a2d0@ipostoffice.worldnet.att.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Nick,

10 to 1 sounds like a nice round rule to start with. Thanks!

I wonder if varying the reactance might have some effect on the overall bandwidth of the circuit. Sounds like I need to dust off SPICE and give it a try.

Dave

At 08:53 PM 2/13/2003 -0600, you wrote:

> >
> > Any clues as to an optimal, or even a "rule of thumb" starting value, for
> > the reactance of the tertiary winding? Or even a "more / fewer turns are
> > better" rule?

> >
> > Dave
> >
>

> That's a really good question. W1FB made his tertiary winding 11 turns Vs
> 1 on the primary, so the ratio of reactances was over 100 (106 ohms to
> 0.88 ohms). I tried to come up with some kind of rule, but the fact that
> both the inductance and the loss resistance of the tertiary are major
> factors makes it sort of complex. When I cut the inductance of the
> tertiary in half while maintaining the loss resistance at 0.1 ohms, it
> didn't hurt things too much in terms of dB loss and deviation from the
> ideal impedance transformation ratio. But 0.1 ohms loss is probably an
> unreasonably low estimate of loss resistance. I think iron powder toroids
> often have Qs in the neighborhood of a couple hundred or so.

>
>Much as I like to analyze and fully understand before picking up the
>soldering iron, this may be one case where measurements will be necessary.
> But my initial rule will be ten to one or so on turns, which implies 100
>to one on inductance.
>
>72--Nick, WA5BDU

Dave Hinerman
WD8CIV@worldnet.att.net

Date: Fri, 14 Feb 2003 05:51:51 -0800 (PST)
From: Lloyd Lachow <llachow@yahoo.com>
To: a low-energy group <qrp-l@lehigh.edu>
Subject: [146196] FOX: trying to find the pitiful scraps of my paper log...
Message-ID: <20030214135151.33262.qmail@web41010.mail.yahoo.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii

KIDDING!

I had a great time last night, but I can only wish it were better...it was going like gangbusters, 75 the first hour, then the ether began to fill up with cotton wool and SSB. 18 the third half hour, and eight the last half hour. Got past 100, but only just.

Thanks to ET, Tom, Doc, Chuck and Bruce for keeping this event going, and to all the patient, skillful Hound-Brothers who come out to play on Thursday nights.

I'll try to get my first log attempt out today, if I can locate all the pesky little odd greasy scraps I may have logged on. KIDDING AGAIN!

=====

73, 72 es oo, Lloyd, K3ESE

K1 # 00379 - 20/40M Rock-Mites - Hunk o' Wahr
ARRL - ARS #1301 - FISTS #8774 - WATPK #8
FPqrp #476 - QRParci #11147
QRP-L #2415 - SOC #530
Fun = Skill / Power
"You can't spell Lloyd without lol!"

Do you Yahoo!?
Yahoo! Shopping - Send Flowers for Valentine's Day
<http://shopping.yahoo.com>

Date: Fri, 14 Feb 2003 08:57:08 -0500
From: David Porter <aa3ur@comcast.net>
To: Low Power Amateur Radio Discussion <qrp-l@Lehigh.EDU>
Subject: [146197] NJQRP Sniffer Kit ordering info
Message-ID: <NGBBICPOCLKMGIBGGBEAAEPJDCAA.aa3ur@comcast.net>
MIME-version: 1.0
Content-type: text/plain; charset=iso-8859-1
Content-transfer-encoding: 7BIT

Please include an indication of whether you will be attending Atlanticon with your sniffer order. This will help me keep the two lists straight.

Send orders to:

njqrp-kits@comcast.net

or to:

Dave Porter AA3UR
647 Middle Holland Road
Holland, PA 18966-2820

Thanks for supporting NJQRP,

Dave, AA3UR

Date: Fri, 14 Feb 2003 08:07:24 -0600
From: "George, W5YR" <w5yr@att.net>
To: "Lloyd Lachow" <llachow@yahoo.com>,
"a low-energy group" <qrp-l@lehigh.edu>
Subject: [146198] RE: [fpqrp] FOX: trying to find the pitiful scraps of my paper log...
Message-ID: <IGEMKCEKDDMKFONPPFHBKEPNDAAA.w5yr@att.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="us-ascii"
Content-Transfer-Encoding: 7bit

Lloyd,

We Pesky Texans have an old country expression that fits here: "Boy, you done good!" <:}

Your signal was consistently strong into North Texas and between Larry at one end and you at the other, it was hard to tell which was which.

Seriously, your operating and paddle work were outstanding in this old man's view, and I take great pride in making it into your log. I taped a lot of the Hunt and still find it hard to believe what a pack of Hounds sounds like. For you to grab my call out of that mess was a real accomplishment for both of us.

Please "Fox" for us again and maybe those good conditions will last a little longer for you next time.

73/72, George

Amateur Radio W5YR - the Yellow Rose of Texas

Fairview, TX 30 mi NE of Dallas in Collin county EM13QE

"In the 57th year and it just keeps getting better!"

-----Original Message-----

From: owner-fpqrp-1@mpna.com [mailto:owner-fpqrp-1@mpna.com] On Behalf Of Lloyd Lachow

Sent: Friday, February 14, 2003 7:52 AM

To: a low-energy group

Subject: [fpqrp] FOX: trying to find the pitiful scraps of my paper log...

KIDDING!

I had a great time last night, but I can only wish it were better...it was going like gangbusters, 75 the first hour, then the ether began to fill up with cotton wool and SSB. 18 the third half hour, and eight the last half hour. Got past 100, but only just.

Thanks to ET, Tom, Doc, Chuck and Bruce for keeping this event going, and to all the patient, skillful Hound-Brothers who come out to play on Thursday nights.

I'll try to get my first log attempt out today, if

I can locate all the pesky little odd greasy scraps I
may have logged on. KIDDING AGAIN!

Date: Fri, 14 Feb 2003 09:25:19 -0500
From: ae5x@netscape.net (John Harper AE5X)
To: qrp-1@lehigh.edu
Subject: [146199] Alignment instructions for OHR WM-2 wattmeter?
Message-ID: <7C02E53F.3C8412F4.00003ABB@netscape.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Good morning,

Would anyone happen to have the alignment instructions for this wattmeter that
they could email me? Thanks and 73,

John Harper AE5X
80m DXing & outdoor QRP: <http://www.ae5x.com>

The NEW Netscape 7.0 browser is now available. Upgrade now! [http://
channels.netscape.com/ns/browsers/download.jsp](http://channels.netscape.com/ns/browsers/download.jsp)

Get your own FREE, personal Netscape Mail account today at [http://
webmail.netscape.com/](http://webmail.netscape.com/)

Date: Fri, 14 Feb 2003 09:26:49 -0500
From: "sslyon" <sslyon@megalink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@lehigh.edu>,
"NJQRP NJQRP" <njqrp@njqrp.org>
Subject: [146200] Atlanticon "Sniffer" Competition: sounds like ...
Message-ID: <000901c2d435\$1c924b60\$0ac8e742@megalink.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Perhaps we should title the "Sniffer Event" more cautiously -for those who might
be unfamiliar with the annual shenanigans at Atlanticon. Such a neophyte (like

my wife) seeing the title for the first time might jump to erroneous mental images... such as:

- a.) -a bunch of dazed geeks with Altoids, earphones, paper bags and squeeze tubes
- b.) -a pack of promiscuous entrants at a weird dog show
- c.) -one of D. Hendricks's Memorial Chili Digesting contests
- d.) (you get the idea)

-just a thought...

73
AA1MY

>

Date: Fri, 14 Feb 2003 09:54:35 -0500 (Eastern Standard Time)
From: W2AGN <w2agn@w2agn.net>
To: qrp-1@Lehigh.EDU
Subject: [146201] FOX: Only 1 This Time
Message-ID: <3E4D032B.000005.11657@w2agn>
MIME-version: 1.0
Content-type: Text/Plain
Content-transfer-encoding: 7BIT

As I suspected, Lloyd was just not possible this close, although I did hear him very weakly in the first 30 minutes, then he was gone. N2WW had a good signal. His excellent keying made his 40 wpm reported by another Hound sound just like 25 wpm. No problem copying.

+---+---+---+ John L. Sielke
|W||2||A||G||N| <http://www.w2agn.net> [UPDATED]
+---+---+---+ Ex-K3HLU,TF2WKT,W7JEF,W4MPC,N4JS

Date: Fri, 14 Feb 2003 10:12:50 -0500
From: brewerj@squared.com
To: QRP-1@lehigh.edu
Subject: [146202] Radio shack specials. Where found?
Message-ID: <0F10178AF5.CB9D9612-ON85256CCD.0053743B@CIS.SQUARED.COM>
MIME-Version: 1.0
Content-type: text/plain; charset=us-ascii

There's been some great tips on close out merchandise over the last year from Radio shack.

How does one find out about these (other than reading here!)? I don't believe these are listed in the ubiquitous flyers we must all get. How does one find out about them?

73 John K5M0

Date: Fri, 14 Feb 2003 09:24:58 -0600
From: KD5NWA <KD5NWA@cbayona.com>
To: brewerj@squared.com,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [146203] Re: Radio shack specials. Where found?
Message-ID: <5.2.0.9.0.20030214092358.00a89620@pop.cbayona.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Try the following link, check often, things change daily.

<<http://www.radioshack.com/Coupons/Coupons.asp>>

At 09:12 AM 2/14/2003, brewerj@squared.com wrote:

>There's been some great tips on close out merchandise over the last year
>from Radio shack.

>

>How does one find out about these (other than reading here!)? I don't believe
>these are listed in the ubiquitous flyers we must all get. How does one
>find out about them?

>

>73 John K5M0

Cecil
KD5NWA

Date: Fri, 14 Feb 2003 10:42:10 -0500
From: "John Huffman" <hjohnc@core.com>
To: <brewerj@squared.com>,
"Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Subject: [146204] Re: Radio shack specials. Where found?
Message-ID: <011401c2d43f\$a3e076a0\$5fc859cf@jhuffman1t>

MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I ran out to get the \$1.97 headsets. They were gone. I almost left until I saw the nicer headsets that usually sell for \$39.99 going for \$3.97. Bought two!

The only way I would have known is this list.

Thanks!

73 de NA8M
John

----- Original Message -----

From: <brewerj@squared.com>
To: "Low Power Amateur Radio Discussion" <qrp-l@Lehigh.EDU>
Sent: Friday, February 14, 2003 10:12 AM
Subject: Radio shack specials. Where found?

> There's been some great tips on close out merchandise over the last year
> from Radio shack.
>
> How does one find out about these (other than reading here!)? I don't
believe
> these are listed in the ubiquitous flyers we must all get. How does one
> find out about them?
>
> 73 John K5MO
>
>
>
>

Date: Fri, 14 Feb 2003 08:50:35 -0700
From: "Chris Trask" <chistrask@earthlink.net>
To: <w8diz@fpqrp.com>,
"Low Power Amateur Radio Discussion" <qrp-l@lehigh.edu>
Subject: [146205] Re: Twisted Bifilar windings
Message-ID: <011301c2d440\$d1720060\$86c49d40@default>
MIME-Version: 1.0
Content-Type: text/plain;

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'-|)__| :. \
| | | | \ ' .
c__; c__; '-.. '>._

Email: chistrask@earthlink.net
<http://www.home.earthlink.net/~chistrask>

Graphics by Loek Frederiks

Date: Fri, 14 Feb 2003 09:07:09 -0700
From: "W7KXB" <w7kxb@cox.net>
To: <hjohnc@core.com>,
"Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [146206] Re: Radio shack specials. Where found?
Message-ID: <[007201c2d443\\$20dc48c0\\$5a6c6244@ph.cox.net](mailto:007201c2d443$20dc48c0$5a6c6244@ph.cox.net)>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

What's the stock number of the headset?
Later
KXBill

Date: Fri, 14 Feb 2003 08:23:09 -0800
From: "Doug Hendricks" <ki6ds@dph.dpol.net>
To: <qrp-1@Lehigh.EDU>
Subject: [146207] No new news to report on NorCal Mini Boots Amp
Message-ID: <[000901c2d445\\$5ccd8540\\$4a0b0d0a@dph.dpol.net](mailto:000901c2d445$5ccd8540$4a0b0d0a@dph.dpol.net)>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Guys, the title says it all. There is no new news to report on the MiniBoots amp kits that you are waiting for from NorCal. We are still waiting on the boards to be finalized. Thank you for your incredible patience on this. The problem is finding time to get the necessary testing done and the changes to the board, then testing the boards. The guys are working on it. 72, Doug

Date: Fri, 14 Feb 2003 12:45:51 -0500
From: ae5x@netscape.net (John Harper AE5X)
To: qrp-l@lehigh.edu
Subject: [146208] WM-2 alignment - thanks guys
Message-ID: <3B29E6BF.0D78B674.00003ABB@netscape.net>
MIME-Version: 1.0
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

This is one heck of a list - you guys are great. I have the alignment procedure.
"Thank you" to all who replied.

Best wishes,

--

John Harper AE5X
80 Meter DXing & Outdoor QRP: <http://www.ae5x.com>

The NEW Netscape 7.0 browser is now available. Upgrade now! <http://channels.netscape.com/ns/browsers/download.jsp>

Get your own FREE, personal Netscape Mail account today at <http://webmail.netscape.com/>

Date: Fri, 14 Feb 2003 11:25:12 -0500
From: palmer_t <ThomasPalmer@colliergov.net>
To: "'qrp-l@Lehigh.EDU'" <qrp-l@Lehigh.EDU>
Subject: [146209] RE: [fpqrp] FOX: trying to find the pitiful scraps of my paper
lo

g...
Message-ID: <F833DC5C03BCB34EBE579DC8DC130447815FC2@CWW1.bcc.colliergov.net>
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"

The QRP-L Foxhunt participants are fortunate to have Larry (N2WW) and Lloyd (K3ESE) as FOXes.

George is correct. Lloyd was MASTERFUL pulling out call signs from the very large pack of hounds.

Based upon Larry's many always superior past performances as a FOX, hounds
EXPECT Larry

to excel; Larry holds the all-time record for pelts issued in a single hunt as well as the total pelts issued in two hunts during all of the hunting seasons.

Prediction: Larry and Lloyd each gave out more than 100 pelts, although band conditions became very noisy during a substantial portion of the 2nd hour.

Tom, N1TP
Naples, Florida

Date: Fri, 14 Feb 2003 12:48:14 -0600
From: robert conley <kc5wa-qrp@juno.com>
To: qrp-1@Lehigh.EDU
Subject: [146210] mc1350
Message-ID: <20030214.124815.-382259.2.kc5wa-qrp@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

someone was looking for MC1350's
is this same as Radio Shack #276-1758
MC1350/SN76600 IF AMPLIFIER

Date: Fri, 14 Feb 2003 11:26:26 -0800
From: "Ian Wilson" <ianmwilson@earthlink.net>
To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>
Subject: [146211] Dual gate FETs: summary
Message-ID: <006201c2d45e\$f8e0eda0\$0b02a8c0@WorkGroup>
MIME-Version: 1.0
Content-Type: text/plain;
 charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Thanks to everyone who responded with information on these devices. Particular thanks to the list member who sent me a copy of Motorola Application Note AN-478, "Small-Signal RF Design with Dual-Gate MOSFETs".

The following is a brief outline of my own findings. YMMV. I have been experimenting with using the 3N201 as a superregenerative receiver for a 6m monitor. Being able to control the gain smoothly by changing DC bias on Gate 2

is a very nice feature.

73 de k3imw/6.

=====
Structurally, a DGFET is like two single-gate MOSFETs in series. The channel current can be modulated by applying control voltage to either gate.

Equivalent circuits: injecting a signal into Gate 1, the device looks like a common source amplifier with a variable drain resistance. Injecting a signal into Gate 2, the resistance controlled by Gate 1 looks like a large unbypassed source resistance. So, typically Gate 1 is used as the signal input with Gate 2 being used for AGC or LO input for a mixer. The combination with input to Gate 1, and Gate 2 being AC bypassed to ground, is a cascode amplifier.

Biasing: for most amplifier applications, V_{g2s} is set to about 4v. A small positive value for V_{g1s} (e.g. 0.25v) gives close to the maximum transconductance for the device. Above the pinchoff voltage, the I_d vs V_{ds} characteristic is almost flat; in other words, the drain current is determined almost entirely by the gate-source voltages. For the device characterized in AN-478, the drain current is 10ma for $V_{g1s} = 0.25v$ and $V_{g2s} = 4v$.

RF design: too much to go into here. AN-478 refers to AN-423. Note that the cascode configuration and the physical separation of Gate 1 from the drain gives very high input-output isolation. Note also that for the device in AN-478, the device is unconditionally stable only above 250MHz - below that frequency it must be neutralized or mismatched for stable amplification.

Noise figure: reaching optimum noise figure does not require sacrificing power gain. Also, neither noise figure nor power gain is critically dependent on source resistance.

AGC: the recommended way to apply AGC is to reduce the Gate 2 bias voltage. This produces a 'remote' cutoff characteristic (i.e. a gradual reduction of I_d with bias). Measured curves show a 30dB gain change (for a 28dB amplifier) as V_{g2s} is varied from 4v down to 0v.

Use as mixer: the signal is applied to Gate 1. The LO may be applied to Gate 1 or

Gate 2. LO injection at Gate 2 requires high-level drive (as transconductance from Gate 2 is smaller than from Gate 1). Injection at Gate 2 offers good isolation between signal and LO, and can provide in excess of 15dB of conversion gain (with Vg1s and Vg2s in the range 0.3v to 0.5v, and 2v RMS LO drive to Gate 2).

Date: Fri, 14 Feb 2003 15:34:01 -0500
From: Ed Tanton <n4xy@earthlink.net>
To: QRP-L Reflector <qrp-l@lehigh.edu>, noGA reflector <nogaqrp@mailman.qth.net>
Subject: [146212] Nice find in my parts...
Message-ID: <5.2.0.9.2.20030214151211.033cd470@pop.earthlink.net>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

An interesting find in some transistors I had meant to get around to testing. These are that common SMT power transistor package, with a small clipped collector tab on top, and two leads on bottom (with the center lead clipped.) About 1/4" square (e.g. less than 1cm square.) I got half a shoebox-full of SMT "floor-sweepings" several years ago. The bulk of these weren't REALLY SMT at all, but rather the single dip-spaced plugin molded capacitors frequently used for bypasses. I spent a pretty good while separating the SMT parts out, and got a very nice assortment of ICs, transistors, and such (5 or so 20MHz SMT oscillators for example.)

I don't really trust the ICs much... (when a breadboard doesn't work, I prefer not to worry about it being the IC) but may use some where a straightforward functionality can be easily discerned. I have pretty much sorted most of the capacitors, some of the resistors, and just dumped the inductors into a container for later.

Also for later were these 'transistors'. Actually, most are N-ch MOSFETs. There are some NPN & PNP bipolars, and some single and dual diodes. All in that power SMT package. While checking one of the diodes, I happened to notice it's V-Forward: 0.22V!! It is only labelled as a U 340. A similar "U 320" diode exhibits a V-Forward of 0.49V... but the two U-340s I found before I had to come upstairs were both 0.22V . I expect these are very likely Schottky diodes, and have read for years where Schottkys are supposed to have lower V-Forward drops... but this is the 1st time I've personally run into one that beats Germanium. Be interesting to take my Tektronix Low Capacitance LCR Meter and measure the junction capacitance-if it'll DO a

diode-I think it might, but we'll see.

73 Ed Tanton N4XY <n4xy@earthlink.net>

Ed Tanton N4XY
189 Pioneer Trail
Marietta, GA 30068-3466

website: <http://www.n4xy.com>

All emails <IN> & <OUT> checked by
Norton AntiVirus with AutoProtect

LM: ARRL QCWA AMSAT & INDEXA;
SEDXC NCDXA GACW QRP-ARCI
OK-QRP QRP-L #758 K2 (FT) #00057

Date: Fri, 14 Feb 2003 03:46:47 -0500
From: "Michael C. Boatright" <ko4wx@mindspring.com>
To: Ed Tanton <n4xy@earthlink.net>
Cc: QRP-L Reflector <qrp-l@lehigh.edu>,
noGA reflector <nogaqrp@mailman.qth.net>
Subject: [146213] Re: [NoGaQRP] Nice find in my parts...
Message-ID: <5.0.2.1.2.20030214034454.0279eab0@pop.mindspring.com>
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

Ed,

Sounds excruciatingly like a lot of patience required!

Nice to find some Shottky's in the mix. Would be interested to see how they perform at RF (similar to 'MCQ's analysis a couple of QQ's ago)...

72 de Mike, K04WX

At 03:34 PM 2/14/2003 -0500, Ed Tanton wrote:

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>testing. These are that common SMT power transistor package, with a small
>clipped collector tab on top, and two leads on bottom (with the center
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>Norton AntiVirus with AutoProtect
>
>LM: ARRL QCWA AMSAT & INDEXA;
>SEDXC NCDXA GACW QRP-ARCI
>OK-QRP QRP-L #758 K2 (FT) #00057
>
>
>-----
>NoGaQRP mailing list
>NoGaQRP@mailman.qth.net
><http://mailman.qth.net/mailman/listinfo/nogaqrp>

Date: Fri, 14 Feb 2003 15:03:20 -0600
From: "Stuart Rohre" <rohre@arlut.utexas.edu>
To: "Bill Howell" <bhowell@mail.utexas.edu>, <qrp-l@Lehigh.EDU>
Subject: [146214] Dacron good stuff for antenna guys like Bill says

Message-ID: <005501c2d46c\$8124e330\$4e100a0a@rohredt2000>

A lot of the line sold by the antenna accessories companies is UV resistant, and important consideration in sunny areas! This is good stuff, Bill lists. 72,
Stuart K5KVH

Date: Fri, 14 Feb 2003 14:16:37 -0700 (MST)
From: "Karl F. Larsen" <k5di@zianet.com>
To: qrp-l@lehigh.edu
Subject: [146215] Fox: Sending Speed
Message-ID: <Pine.LNX.4.44.0302141356200.2255-100000@bucket.dog>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

My experience in the last Hunt makes me think the speed that a Hound sends his call sign has a strong effect on being heard by a Fox. I just checked and my cw speed was set at 23 wpm, which is 5 wpm faster than the 18 wpm I was using. Assuming that a call sign is a word, and kd5ssj IS a word long, then in the original 18 wpm it took 1/18 th of a minute to send my call. That is $1/18 \times 60$ seconds or 3.33 seconds.

Now at 23 wpm the call sign takes $1/23 \times 60$ which is 2.6 seconds. So the Fox might have a clear shot at copy of a fast call and might encounter qrm on the longer call.

This is not good math and it is likely that my experience was a fluke, but I tell you what: Next Thursday I'm starting out at 25 wpm. When you figure k5di is shorter than a word, and a normal word is 2.4 seconds and $4/5 \times 2.4 = 1.92$ seconds. So my call is now LESS than 2 seconds long. I can zip that in easy in a lull of crazed Hounds baying at the Fox.

--

- Karl Larsen k5di Las Cruces, NM Az ScQRPions -

Date: Fri, 14 Feb 2003 16:30:45 -0500 (EST)
From: Chris Cartwright <ccart@phideaux.com>
To: QRPL List <qrp-l@lehigh.edu>

Subject: [146216] Re: Dacron good stuff for antenna guys like Bill says
Message-ID: <Pine.LNX.4.33.0302141627250.16157-100000@dns.phideaux.com.>
MIME-Version: 1.0
Content-Type: TEXT/PLAIN; charset=US-ASCII

> A lot of the line sold by the antenna accessories companies is UV resistant,

I've had about 500' of the 5/16" stuff up for over two years as guys. Not a single problem. In addition to the UV resistance, the knots don't "weather harden" when they're outside for a while. It does however seem to really pack on the ice when temps are just right. Purely subjective, but it seems to pack on about twice as much ice as the wire guys I have up of similar diameter. Weird.

-- Chris Cartwright, Unix Administrator | ccart@phideaux.com --
-- N3XRV ARRL-VE Norcal Zombie #163 | Oxford, PA 19363 FM29as --
-- MDmW #5 NJ-QRP #105 QRP-L #655 NORCAL #1891 FISTS #5028 QRP-ARCI #9271 --

Date: Fri, 14 Feb 2003 16:31:24 -0400
From: "Prof. Arnaldo Coro Antich" <inforhc@ip.etcasa.cu>
To: <ianmwilson@earthlink.net>
Cc: <qrp-L@LeHigh.edu>
Subject: [146217] Re: Dual gate FETs: summary
Message-ID: <003701c2d468\$0c53c8e0\$02000a0a@user>
MIME-Version: 1.0
Content-Type: text/plain;
charset="Windows-1252"
Content-Transfer-Encoding: 7bit

Dear amigo Ian:

I am very interested in your dual gate MOSFET monitoring receiver for 6 meters.

Do you have the circuit diagram done in .jpg format ?

I don't want to have a very nice receiver connected to the antenna all the time here on 6 meters, due to the high probability of thunderstorms...

A simple monitoring receiver, sensitive enough to tell you when the band is open, and also not too selective is ideal for the purpose.

It can be ""spared"" in case lightning strikes !!! (Not the same kind of loss as my nice transceiver , you know ...)

Your help will be most appreciated, and the circuit may even be a way of making some more of the locals to start monitoring 6 meters !!!

72 and DX

Arnie Coro

C02KK

----- Original Message -----

From: "Ian Wilson" <ianmwilson@earthlink.net>

To: "Low Power Amateur Radio Discussion" <qrp-1@Lehigh.EDU>

Sent: Friday, February 14, 2003 3:26 PM

Subject: Dual gate FETs: summary

> Thanks to everyone who responded with information on these devices.

Particular thanks to the list member

> who sent me a copy of Motorola Application Note AN-478, "Small-Signal RF Design with Dual-Gate MOSFETs".

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> superregenerative receiver for a 6m monitor. Being able to control the gain smoothly by changing DC bias on Gate 2

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> 73 de k3imw/6.

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> So, typically Gate 1 is used as the signal input with Gate 2 being used for AGC or LO input for a mixer. The combination with

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> and can provide in excess of 15dB of conversion gain (with Vg1s and Vg2s
in the range 0.3v to 0.5v, and 2v RMS LO drive to Gate 2).
>
>
>
>

Date: Fri, 14 Feb 2003 16:30:17 -0600
From: Nick Kennedy <nkennedy@tcainternet.com>
To: "Low Power Amateur Radio Discussion (E-mail)" <qrp-l@Lehigh.EDU>
Subject: [146218] More raving about resonating transformers
Message-ID: <01C2D446.5CC356A0.nkennedy@tcainternet.com>
MIME-Version: 1.0
Content-Type: text/plain; charset="us-ascii"
Content-Transfer-Encoding: 7bit

The other day I posted about investigating the 3-winding transformer with
the 3rd winding resonated. That third winding converted a transformer with
"too low" winding reactances into a "normal" transformer, at the resonant

frequency. In short, it made a narrow band transformer.

So the next thought is, why do I need that third winding? Can't I do the same thing with a conventional transformer?

We've all seen it done. Put a trimmer cap across one of the windings and tune for max output. But I've wondered ? what are we resonating? Isn't the ideal transformer supposed to introduce negligible reactance to the circuit and serve only to transform voltages, currents and impedances according to the turns ratio? And sometimes I tweak on that trimmer and don't see much of a peak. That's where having too many partial mental models of transformers floating around in your head can confuse things.

A good picture of the famous "magnetizing inductance" is needed. Once you've got that, you can know when to comfortably ignore it, when to worry about it, and when to put it to work for you by resonating it. Picture your typical 2:1 transformer, giving a 4:1 impedance transformation. You've got 200 ohms on the load side and see 50 ohms at the input side and things are good. Now disconnect the 200 ohms and ask what you've got on the input. Infinity divided by 4 is infinity, so you expect an open circuit. What you actually see is some value of inductive reactance.

Obviously, if you take any transformer and just consider the primary winding with the secondary open, the transformer is now just an inductor.

The self inductance of that winding is called the magnetizing inductance. It's always there, in parallel with the reflected load Z , whether you load the secondary or not. OK. You know the rule about making the winding's inductive reactance a comfortable amount (5 or 10 times) larger than the connected load? That's what makes it negligible. Paradoxically, by making the inductance large, you make it insignificant. That's cause it's in parallel with the load. When a large and a small impedance are paralleled, the smaller one dominates. Say we're looking for 50 ohms reflected at the primary so we make the primary winding reactance 350 ohms (7x higher). The effective series impedance looking at the input to the transformer will be 49 ohms plus 7 ohms reactive. The transformer's inductance is hardly seen at all by the source and the impedance transformation is near perfect.

OK, now we're getting really smart and we think, "I'm gonna resonate that 350 ohms out, get rid of that remaining 7 ohms reactance and get selectivity to boot!" You try it and find that you get only the tiniest peak at the desired frequency, hardly worth the effort at all.

So to make it work, you're going to have to do what was done on the 3-winding transformer: Make a crummy broadband transformer by violating the heck out of the 5 to 10 times rule. Instead of making the primary reactance 5 times 50 ohms, make it 1/5th (for example) that or 10 ohms. I tried this on SPICE and now see a really nice peak at the desired frequency, with a slope off to about -30 dB a decade above and a decade

below. That's not super-sharp, but remember that the 3-winding transformer used $XL = 1/50$ th the load, not $1/5$ th. So you can adjust things. Just remember that if this thing is to cover a whole ham band, you don't want to get it too sharp.

So what's the advantage of 3-windings over two? I honestly don't know. But it's probably good to have both in your bag of tricks. And yes, there are some perfectionist designers (not mentioning any names) who will want to have high winding reactances while still resonating them, because the thought of any stray reactances running around gives 'em the heebie-jeebies.

A final thought on the matter. You'll usually make your broadband transformers using ferrite cores, because they give you the desired high winding impedances. But for the narrow band transformers, I suspect you're going to want to use iron powder cores, first because they give much lower inductance for a given number of turns, and second because they produce much higher Q inductors-desirable for narrow band applications. Plus their inductance is more stable and predictable.

72--Nick, WA5BDU
in Arkansas

End of QRP-L Digest 2831

